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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
09/937,322	12/20/2001	Maria Gabriella Santoro	10167-013-999 9500		
75	90 03/29/2005		EXAMINER		
Pennie & Edmonds			WILLIAMS, LEONARD M		
1155 Avenue of	the Americas				
New York, NY 10036-2711			ART UNIT	PAPER NUMBER	
			1617		

DATE MAILED: 03/29/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No		Applicant(s)	
0,111	09/937,322		SANTORO ET AL.	
Office Action Summary	Examiner		Art Unit	
	Leonard M. Will	iams	1617	
The MAILING DATE of this communication Period for Reply	appears on the cove	er sheet with the co	orrespondence address	
A SHORTENED STATUTORY PERIOD FOR RITHE MAILING DATE OF THIS COMMUNICATION Extensions of time may be available under the provisions of 37 CF after SIX (6) MONTHS from the mailing date of this communication. If the period for reply specified above is less than thirty (30) days, If NO period for reply is specified above, the maximum statutory provided to the period for reply within the set or extended period for reply will, by some and patent term adjustment. See 37 CFR 1.704(b).	DN. R 1.136(a). In no event, hov n. a reply within the statutory m eriod will apply and will expire tatute. cause the application	rever, may a reply be tim nimum of thirty (30) days SIX (6) MONTHS from to to become ABANDONER	ety filed will be considered timely. he mailing date of this communication (35.U.S.C. 6.133)	n.
Status				
1) Responsive to communication(s) filed on 2	20 December 2001.			
2a) This action is FINAL . 2b)	This action is non-fir	al.		
3) Since this application is in condition for all				5
closed in accordance with the practice und	ler Ex parte Quayle,	1935 C.D. 11, 45	3 O.G. 213.	
Disposition of Claims				
4)⊠ Claim(s) <u>37-78</u> is/are pending in the applic	ation.			
4a) Of the above claim(s) is/are with		ation.		
5) Claim(s) is/are allowed.				
6) ☐ Claim(s) is/are rejected.				
7) Claim(s) is/are objected to.				
8) Claim(s) $\underline{37-78}$ are subject to restriction an	d/or election require	ment.	•	
Application Papers				
9) The specification is objected to by the Exar	niner.			
10) The drawing(s) filed on is/are: a)		jected to by the E	xaminer.	
Applicant may not request that any objection to				
Replacement drawing sheet(s) including the co			• •	d).
11)☐ The oath or declaration is objected to by the				
Priority under 35 U.S.C. § 119				
 12) ☐ Acknowledgment is made of a claim for foreal a) ☐ All b) ☐ Some * c) ☐ None of: 1.☐ Certified copies of the priority document 			(d) or (f).	
2. Certified copies of the priority docum			n No	
3. Copies of the certified copies of the				
application from the International Bu			a iii tiiis tvationai Stage	
* See the attached detailed Office action for a		` ''	1.	
Attachment(s)				
1) Notice of References Cited (PTO-892)	41 [7]	Interview Summary (F	PTO_413\	
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)		Paper No(s)/Mail Date	e	
 Information Disclosure Statement(s) (PTO-1449 or PTO/SB Paper No(s)/Mail Date 		Notice of Informal Part Other:	tent Application (PTO-152)	
S. Patent and Trademark Office PTOL-326 (Rev. 1-04) Office				••••
· == === (1/64. 1-64)	e Action Summary	Part	of Paper No./Mail Date 2005031	16 VW

DETAILED ACTION

The preliminary amendment received 09/21/2001 canceling claims 1-36 and adding new claims 37-78 is acknowledged and entered. Claims 37-78 are to be considered on their merits.

Election/Restrictions

Restriction is required under 35 U.S.C. 121 and 372.

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1.

In accordance with 37 CFR 1.499, applicant is required, in reply to this action, to elect a single invention to which the claims must be restricted.

Group I, claim(s) 37-73, drawn to a method for treating or preventing a disorder in a host.

Group II, claim(s) 74-78, drawn to a method for treating or preventing a disorder in a plant.

Species Election

This application contains claims directed to more than one species of the generic inventions. These species are deemed to lack unity of invention because they are not so linked as to form a single general inventive concept under PCT Rule 13.1.

If Group I is elected then a compound species election and a disorder species election is required.

Application/Control Number: 09/937,322

Art Unit: 1617

If group II is chosen a compound species election is required and a disorder species election is required.

Page 3

The species are as follows:

Compound Species Election:

- 1) One compound specified by selection of one specific substituent embodiment for each of R_{1-9} and X for either formula (a) or formula (b) of claim 37.
- 2) One compound specified by selection of one specific substituent embodiment for each of R_{1-9} and X for either formula (a) or formula (b) of claim 38.
- 3) One compound specified by selection of one specific substituent embodiment for each of R, R_{1-2} , X and Y for either formula (i), formula (ii), formula (iii) or formula (iv) of claim 39.
 - 4) R-(+)-4-tert-butyldimethylsilyloxy-cyclopent-2-en-1-one of claim 41.
 - 5) S-(-)-4-tert-butyldimethylsilyloxy-cyclopent-2-en-1-one of claim 42.
- 6) One compound specified by selection of one specific substituent embodiment for each of R, R₁₋₂, X and Y for either formula (i), formula (ii), formula (iii) or formula (iv) of claim 76.
- 7) R-(+)-4-tert-butyldimethylsilyloxy-cyclopent-2-en-1-one or S-(-)-4-tert-butyldimethylsilyloxy-cyclopent-2-en-1-one of claim 77.

Disorder Species Election:

- 1) Disorder associated with NF-kB of claim 56 -
- 2) Viral-mediated disorder of claim 57.
- 3) Bacterial-mediated disorder of claim 59.

Art Unit: 1617

- 4) Disorder resulting from radiation of claim 60.
- 5) Inflammatory disorder of claim 61.
- 6) Disorder of the immune system of claim 62.
- 7) Ischemia of claim 63.
- 8) Arteriosclerosis of claim 64.
- 9) Cancer of claim 66.
- 10) Disorder involving damage to or killing of cells of claim 67.
- 12) Diabetes of claim 68.
- 13) Disorder involving calcium loss or deficiency of claim 69.
- 14) Disorder is a viral disorder of claim 78.

Applicant is required, in reply to this action, to elect a single species of compound and a single species of disorder to which the claims shall be restricted if no generic claim is finally held to be allowable. The reply must also identify the claims readable on the elected species, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered non-responsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

The claims are deemed to correspond to the species listed above in the following manner:

Application/Control Number: 09/937,322

Art Unit: 1617

Compound Species:

1) One compound specified by selection of one specific substituent embodiment

for each of R₁₋₉ and X for either formula (a) or formula (b) of claim 37.

2) One compound specified by selection of one specific substituent embodiment

for each of R_{1-9} and X for either formula (a) or formula (b) of claim 38.

3) One compound specified by selection of one specific substituent embodiment

for each of R, R₁₋₂, X and Y for either formula (i), formula (ii), formula (iii) or formula (iv)

of claim 39.

4) R-(+)-4-tert-butyldimethylsilyloxy-cyclopent-2-en-1-one of claim 41.

5) S-(-)-4-tert-butyldimethylsilyloxy-cyclopent-2-en-1-one of claim 42.

Disorder Species:

1) Disorder associated with NF-kB of claim 56.

2) Viral-mediated disorder of claim 57.

3) Bacterial-mediated disorder of claim 59.

4) Disorder resulting from radiation of claim 60.

5) Inflammatory disorder of claim 61.

6) Disorder of the immune system of claim 62.

7) Ischemia of claim 63.

8) Arteriosclerosis of claim 64.

9) Cancer of claim 66.

10) Disorder involving damage to or killing of cells of claim 67.

Page 5

Art Unit: 1617

- 12) Diabetes of claim 68.
- 13) Disorder involving calcium loss or deficiency of claim 69.

The following claim(s) are generic: 37-39, 44-51, 65, and 74-77.

The species listed above do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, the species lack the same or corresponding special technical features for the following reasons: The special technical feature is a compound containing a cyclopentenone core structure. Cyclopentenenone containing compounds are well known in the art and include such compounds as prostaglandins (and their derivatives), specific cyclopentenone compounds known in the art can be found in US Patent 5352708, US Patent 6548543 and US Patent No. 5329035.

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Leonard M Williams whose telephone number is 571-272-0685. The examiner can normally be reached on MF 9-5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Sreeni Padmanabhan can be reached on 571-272-0629. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number: 09/937,322

Art Unit: 1617

Page 7

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

LMW

GREENI PADMANABHAN SUPERVISORY PATENT EXAMINATION